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U.S. DEPT. OF AGRICULTURE.

War expenditures by the Dept. of  
agriculture. 1919

(65th Cong. 3d sess. Senate.  
Doc. no. 363)

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65th CONGRESS, }  
3d Session.

SENATE.

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No. 363.

WAR EXPENDITURES BY THE DEPARTMENT OF AGRICULTURE.

LETTER

FROM

THE SECRETARY OF AGRICULTURE,

TRANSMITTING,

IN RESPONSE TO A SENATE RESOLUTION OF DECEMBER 15 (CALENDAR DAY, DECEMBER 23), 1918, CERTAIN INFORMATION AND FIGURES, SO FAR AS THE DEPARTMENT IS CONCERNED, RELATIVE TO THE COST OF THE WAR WITH GERMANY AND AUSTRIA.

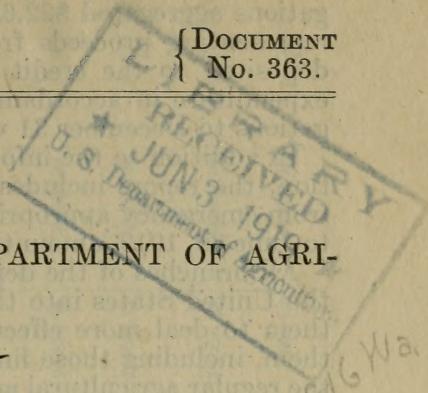
JANUARY 31, 1919.—Ordered to lie on the table and to be printed.

DEPARTMENT OF AGRICULTURE,

Washington, January 28, 1919.

SIR: In response to the resolution of the Senate adopted December 23, 1918, I transmit herewith a report giving full information and figures, so far as the department is concerned, relative to the cost of the war with Germany and Austria.

Expenditures in this department on account of the war with Germany and Austria were made largely from the appropriations, aggregating \$22,378,263, provided by the food production acts of August 10, 1917, and November 21, 1918; the deficiency appropriation of \$4,000,000 for the purchase and sale of seed to farmers in drought-stricken areas; the appropriation of \$10,000,000 in the food-control act of August 10, 1917, and the Agriculture Appropriation act of October 1, 1918, for the purchase and sale of nitrate of soda to farmers; and certain allotments from the President's emergency fund for the national security and defense and from appropriations of the War and Navy Departments. Expenditures from these funds and allotments, from April 6, 1917, to December 31, 1918, together with outstanding obligations on the latter date, are indicated by projects in the accompanying report. These expenditures and obli-



gations aggregated \$22,683,351.30, but as the sum of \$8,032,550.50, representing proceeds from sales of seed and nitrate of soda, was deposited to the credit of the appropriations involved for further expenditure in accordance with law, the net expenditures and obligations to December 31 were \$14,650,800.80.

In addition to the information specifically requested by the resolution, the report includes an estimate of contemplated expenditures from emergency appropriations and allotments from January 1, 1919, to June 30, 1919, amounting to \$6,308,290.30.

All branches of the department, immediately after the entrance of the United States into the war, readjusted their activities to enable them to deal more effectively with emergency problems. Many of them, including those financed from the appropriations provided by the regular agricultural act, rendered service in a number of directions to other branches of the Government, especially the War and Navy Departments, the Food and Fuel Administrations, and the War Trade, War Industries, and Shipping Boards. Through the Bureau of Animal Industry, the department not only continued to safeguard the meat supply for the civilian population, but it also inspected the meats used at the various cantonments, training camps, forts, posts, and naval stations, and aided in the organization of the Veterinarian Corps. Through the Forest Service, it rendered valuable assistance to practically all branches of the Government having to do with the purchase or use of forest products and to many industries which supplied war material to the Government, made a thorough study of the lumber situation, aided in many directions the Bureau of Aircraft Production and the Navy Department in the execution of their airplane program, conducted cooperative tests on a large scale at the forest products laboratory, and collaborated in the organization of the forestry regiments. Its Bureau of Markets cooperated with the War Industries Board in broadening channels of distribution and stimulating the use of stocks of low-grade cotton and worked with the Food Administration in the handling of grains, and in other of its activities. Its Bureau of Chemistry assisted other departments in preparing specifications for articles needed by them, aided the War Department in the organization of its chemical research work and in making tests of fabrics and supplies, worked out formulas for waterproofing leather, and maintained intimate touch with the related service of the Food Administration. In like manner, through the States Relations Service and the Bureaus of Soils, Roads, Biology, and Entomology, the department's services were freely extended to other branches of the Government. It would be impossible, with any substantial degree of accuracy, to segregate the expenditures that were made for these purposes. Furthermore, many of the scientific and administrative officers of this department, whose salaries are paid from funds provided in the regular appropriation acts, have devoted a great deal of their time to the supervision and direction of emergency activities. As their duties in connection with these activities were more or less incidental to their regular work, it did not seem feasible to include such expenditures, which in the aggregate were relatively small, in the accompanying report.

Very truly yours,

D. F. HOUSTON, *Secretary.*

The PRESIDENT OF THE SENATE.

*Information and figures relative to the cost of the war with Germany and Austria so far as concerns the Department of Agriculture.*

[Required by Senate resolution dated Dec. 23, 1918.]

WAR EXPENDITURES BY DEPARTMENT OF AGRICULTURE.

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OFFICE OF THE SECRETARY. PROJECTS.	Expenditures already made from Apr. 6, 1917, to Dec. 31, 1918.	Obligations incurred, not yet discharged, as of Dec. 31, 1918.	Total.	Estimated amount to be expended from emergency appropriations or allotments from Jan. 1 to June 30, 1919. Grand total.
Appropriation: Stimulating agriculture and facilitating distribution of products (acts Aug. 10, 1917, vol. 40, pp. 273-276; Nov. 21, 1918, vol. 40, pp. 1045-1049); General administration.	\$113,863.07	\$3,268.00	\$117,131.16	\$35,845.00
(General supervision and direction of the activities under the food-production act, including the payment of the salaries of two Assistant Secretaries and the employment of clerical and other emergency assistants; and for necessary traveling expenses, fuel, office supplies and equipment, and miscellaneous expenses. This project includes not only the immediate office of the Secretary but also the three Assistant Secretaries, the chief clerk's office, and other branches of the Office of the Secretary, including the legal and accounting work.)	310,306.98	19,700.93	330,007.91	157,045.00
(Preparation, printing, and distribution of emergency leaflets, circulars, bulletins, and posters; increasing the circulation of the Weekly News Letter to special temporary lists; supplying information in ready available form to daily newspapers, country weeklies, the agricultural press, and certain classes of trade journals, and other informational activities of an emergency character.)	24,167.86	668.39	24,836.25	26,500.00
(Preparation, shipment, installation, and demonstration of exhibit material for use at fairs, expositions, and in other ways; illustrating improved methods of food production, conservation, marketing, and utilization.)	14,169.12	475.01	14,644.13	15,000.00
Rent in the District of Columbia.				
(Provision for additional office quarters made necessary by the increased activities of the department in carrying out the purpose of the food production act.)	18,370.44	845.89	19,216.33	25,000.00
Appropriation: National security and defense, Department of Agriculture (act of July 27, 1918, vol. 40, p. 635); Fertilizer control.				44,216.33
(Administration of the duties imposed by the President's proclamation of Feb. 26, 1918, with reference to licensing the importation, manufacture, storage, and distribution of fertilizers and fertilizer materials.)	5,459.76	228.76	5,688.52	15,688.52
(Administration of the duties imposed by the President's proclamation of May 14, 1918, with reference to the licensing of the farm-equipment industry.)				10,000.00

*Information and figures relative to the cost of the war with Germany and Austria so far as concerns the Department of Agriculture—Continued.*

OFFICE OF THE SECRETARY—Continued.	PROJECTS—continued.	Expenditures already made from Apr. 6, 1917, to Dec. 31, 1918.	Obligations incurred, not yet discharged, as of Dec. 31, 1918.	Total.	Estimated amount to be expended from emergency appropriations or allotments from Jan. 1 to June 30, 1919. Grand total.
Appropriation and project, with explanatory remarks.					
OFFICE OF FARM MANAGEMENT.	PROJECTS.				
Appropriation: Stimulating agriculture and facilitating distribution of products (same acts):					
Assistance in supplying farm labor.		136,162.30	1,754.97	137,917.27	\$99,185.35
(Cooperation with the Department of Labor and State agencies in dealing with the farm-labor problem by placing in each State in touch with the State agencies, the best available man (1) to make surveys of farm-labor conditions; (2) to bring about fuller cooperation in the utilization of labor among farmers in the same community; (3) to assist in shifting labor from one community or one State to another; (4) to bring into service kinds of labor not heretofore fully or regularly employed in farming operations; and at the same time avoid taking this labor from other useful industries; (5) to encourage the fullest use of farm-labor-saving machinery wherever practicable and in other ways.)					237,052.62
BUREAU OF ANIMAL INDUSTRY.					
Eradication of cattle ticks.		177,847.96	1,750.00	179,597.96	59,183.90
(Extension of the tick-eradication activities of the department, in order to advance the preliminary organization work, and reduce the area under quarantine as rapidly as possible, and thus add materially to the meat supply of the country.)					238,781.86
Eradication of hog cholera.		269,565.41	5,933.00	275,588.41	101,257.13
(Enlargement of the campaign looking to the prevention, control and eradication of hog cholera in the States already covered in part by bureau veterinary inspectors, working in cooperation with State authorities; and extension of the work to additional States.)					376,845.54

Eradication of tuberculosis, abortion, strangles, influenza, etc.	111,597.23	2,450.00	114,047.23	86,518.58	200,565.81
(Cooperation with State regulatory and extension agencies and with private owners of purebred stock in the eradication or control of tuberculosis among cattle and swine, influenza among horses, contagious abortion, strangles, blackleg, anthrax, and other animal diseases, including inspections at market centers, supervision, cleaning, and disinfection of infected cars, and advice to owners of animals as to proper methods of applying the necessary sanitary measures for the control and eradication of these diseases.)					
Production of beef cattle	23,956.13	495.00	24,451.13	94,610.01	119,061.14
(Advice and assistance to farmers and cattlemen, in cooperation with the States Relations Service and the extension divisions of the State agricultural colleges, in the promotion of beef-cattle production through the conservation of all good breeding cows, breeding for a maximum calf crop, preparation of permanent pastures, building sites, and the preservation of all available feedstuffs.)					
Production of pork	142,899.34	3,720.50	146,619.84	62,897.92	209,517.76
(Stimulation of the production of pork by expanding the existing demonstrational activities in connection with the boys' and girls' pig clubs, county agents, and other State extension forces, and by lending greater direct assistance to farmers and hog raisers in solving their problems.)					
Production of poultry	131,728.75	3,245.00	134,973.75	75,121.52	210,095.27
(Promotion of the production of poultry and eggs on general farms and in back yards by enlarging the present facilities for assisting poultry and farmers' organizations and individuals and by demonstrating proper methods for increasing and improving their output.)					
Production of sheep	23,913.78	1,040.00	24,953.78	45,104.19	70,057.97
(Extension of mutton and wool production through the encouragement of greater interest in sheep husbandry, especially in the Eastern and Southern States; and direction and aid in the transfer of sheep from sections where there is a shortage of food or where range is no longer available to those regions where the conditions are favorable for sheep production.)					
Military-horse breeding	1,049.82	800.00	1,849.82	.....	1,849.82
(Cooperation with the War Department in the breeding of horses for military purposes by making available to farmers and breeders the services of approved stallions in those communities where conditions are particularly favorable for the production of suitable types of horses.)					
Making cottage cheese on the farm	61,003.66	1,340.00	62,343.66	6,619.25	68,962.91
(Instructions and demonstrations to farm and city women, in cooperation with the home-demonstration forces in various States, in proper methods of making and using cottage cheese, as a substitute for meat, thereby utilizing for human consumption a large amount of skim milk now fed to live stock and materially contributing to the conservation of the Nation's meat supply.)					
Utilization of creamery by-products	32,941.33	835.00	33,776.33	11,650.66	45,426.99
(Assistance to creamery operators looking to the most advantageous utilization of the by-products of this industry, such as the conversion of skim milk and buttermilk into cottage cheese, condensed skim milk, or casein; one of the possibilities of such utilization being the addition of approximately 2,000,000,000 pounds annually to the food supply of the country in the form of cottage cheese.)					
<b>BUREAU OF PLANT INDUSTRY.</b>					
Purchase and sale of seeds (see under "Credits," p. 5)	1,859,583.97	804,035.18	2,663,569.15	24,329.81	2,687,898.96
(Purchase and storage of seeds suitable for the production of food or feed crops and their sale to farmers for cash, at cost, in production areas where, on account of drought or other unfavorable conditions, special need for such assistance arises; receipts from sale of seed to be returned to the Treasury and used as a revolving fund.)					

 Interim Report of the Bureau of Plant Industry—Continued  
 December 31, 1918

*Information and figures relative to the cost of the war with Germany and Austria so far as concerns the Department of Agriculture—Continued.*

Appropriation and project, with explanatory remarks.

				Estimated amount to be expended from emergency appropriations or allotments from Jan. 1 to June 30, 1919.	
		Obligations incurred, not yet discharged, as of Dec. 31, 1918.	Total.		Grand total.
<b>BUREAU OF PLANT INDUSTRY—Continued.</b>					
Cereal-smut eradication.	Expenditures already made from Apr. 6, 1917, to Dec. 31, 1918.	\$124,402.01	\$37,235.46	\$161,637.47	\$195,632.24
(An active campaign for the control of the ravages of grain smuts, which cause heavy annual losses of wheat, oats, barley, and rye, especially by demonstrations of seed treatments, in cooperation with the States Relations Service and the State extension forces.)					
Peanut conservation and utilization.		4,816.37	4,606.23	9,422.60	17,300.06
(Instructions and demonstrations in the harvesting, threshing, and handling of peanuts, especially in regions where the peanut industry is new, in order to increase the acreage and produce crops of the highest value for use as food and for the manufacture of oil.)					
Control of cotton, truck, and forage crop diseases.		44,527.85	28,246.01	72,773.86	53,598.26
(Assistance to State extension agencies, through advice to county agricultural agents and farm bureaus, in the control of diseases of potatoes, beans, and other important crop plants; pathological inspection of vegetables during processes of marketing, in cooperation with the Bureau of Markets.)					
Farm storage of sweet potatoes.		11,456.02	157.67	11,613.69	11,613.69
(Assistance to sweet-potato growers in obtaining accurate information regarding the construction and management of storage houses and the proper methods to be used in harvesting and curing sweet potatoes, thereby greatly reducing losses in storage and extending the utilization of the crop over a longer period of time.)					
Location of Irish-potato seed stocks.		7,196.76	5,259.80	12,456.56	26,037.20
(A general survey of the United States for the purpose of locating stocks of disease-free and varietal-pure seed, potatoes, and determination of the suitability of certain stocks and varieties for seed purposes in the various potato-producing areas.)					
Plant-disease survey.		21,594.02	9,167.20	30,761.22	9,384.03
(Cooperation with State pathologists in the collection of information relative to the occurrence and severity of the more important plant diseases as an aid in the control of serious epidemics, especially diseases of cereal and truck crops.)					
Castor-bean production and utilization.		6,458.32	5,589.42	12,047.74	2,644.60
(Advice and assistance to farmers, farm demonstrators, contractors, county agents, and others in connection with the culture and handling of castor beans, especially the growing of some 100,000 acres under contract by the War Department for the production of castor oil needed for the lubrication of airplane motors.)					
Maintenance of field-bean seed supply.		2,281.01	1,480.69	3,761.70	8,283.01
(Improvement of the bean industry of the country by developing methods which will insure seed of higher productivity, true to name, and less subject to disease; and dissemination of information to growers regarding the best practices.)					
Field supervision of war-garden work.		227.76	443.51	671.27	3,500.00
(Advice and assistance by garden specialists to the State extension forces, in cooperation with the States Relations Service, regarding the handling of crops and as to varieties most suitable for planting by small gardeners.)					

Production of cereals and grain sorghums.....	444.01	2,811.00	3,255.01	4,859.80	\$,114.01
(Detail of experts and assistants to work as special advisers to county agents in selecting varieties of cereals and grain sorghums best suited to the different regions and in securing the most economical use of labor and the adoption of the best methods of plaiting, handling, and storing the crops in order to extend the acreage and increase crop production.)					
Sugar-beet nematode work.....	1,615.16	3,384.90	5,000.06	6,530.00	11,530.06
(A thorough survey of sugar-beet producing sections to locate nematode-infested areas; study of the effect of crop rotations, cultural methods, fertilizers, and other factors that bear upon the propagation and spread and upon the control of the nematode; field and plant experiments for the purpose of determining the most practical means of control; and advice to growers regarding control measures that should be followed when growing beets on badly infested land.)					
Pathological work, in cooperation with the inspection service of the Bureau of Markets, to determine the condition of fruits on the markets and during the processes of marketing, including the initial shipping points; discourage the shipment of fruit which is likely to spoil in transit or on the market; give advice and information to the market inspectors of the Bureau of Markets regarding the diseases and decay of fruit; and investigate and identify fruit diseases in order to aid in their prevention.)	4,843.34	4,065.61	8,938.95	9,461.36	18,400.31
(Survey to determine the distribution of the varieties of barberry which harbor the shores of the destructive black and stripe rusts of wheat, oats, and barley; and an active campaign looking to the general eradication of the objectional varieties.)	4,145.49	21,902.89	26,048.38	.....	26,048.38
Control of a new sugar-cane disease.....	.....	625.00	625.00	19,375.00	20,000.00
(Cooperation with the pathologist of the insular experiment station on the island of Porto Rico in working out and securing the adoption of practical methods of control of a new destructive sugar-cane disease.)					
Production of rice.....	16.28	16.28	2,483.72	2,500.00	
(Advice and assistance in developing rice production on the island of Porto Rico by cultural, irrigation, and varietal tests, in cooperation with the insular experiment station.)	269.44	269.44	730.56	1,000.00	
Thrasher explosions and fires.....	269.44	269.44	730.56	1,000.00	
(Cooperation with the Bureaus of Chemistry and Markets in the development and demonstration of methods for destroying smut spores occurring in thrashing machines, thus preventing the spread of smut to near-by grain fields, as well as reducing the danger of thrasher explosions and fires.)					
FOREST SERVICE.					
PROJECTS.					
Appropriation: Army appropriation bill (act May 20, 1918, vol. 40, pp. 845-896); Research work by Forest Service for aircraft production.....	65,817.47	24,000.00	89,817.47	110,182.53	200,000.00
(Research work relating to veneers, waterproof glues, and coatings, kiln drying, propellers, airplane parts, and similar substances, especially adaptable to the work of the Bureau of Aircraft Production of the War Department.)					
Box and packing investigations for ordnance, Army.....	14,136.99	6,500.00	20,636.99	3,346.82	23,983.81
(Experiments and investigation in connection with packing boxes and packing, and tests and investigation of boxes, crating, packing, etc., for the Ordnance Department of the War Department.)					
Appropriation: National security and defense—Department of Agriculture (same act); Research work by Forest Service for aircraft production, Navy.....	62,788.05	16,000.00	78,788.05	39,211.95	118,000.00
(Cooperating with and assisting the Navy in the matter of wood used in the manufacture of airplane propellers and other parts.)					

*Information and figures relative to the cost of the war with Germany and Austria so far as concerns the Department of Agriculture—Continued.*

Appropriation and project, with explanatory remarks.	Expenditures already made from Apr. 6, 1917, to Dec. 31, 1918.	Obligations incurred, not yet discharged, as of Dec. 31, 1918.	Total.	Estimated amount to be expended from emergency appropriations or allotments from Jan. 1 to June 30, 1919.	Grand total.
<b>BUREAU OF CHEMISTRY.</b>					
PROJECTS.					
Appropriation: Stimulating agriculture and facilitating distribution of products (act May 20, 1918, vol. 40, pp. 845-890); Poultry and egg demonstrations at small packing plants, in localities where the work promises to yield the best results, of proper methods of fleshing, killing, picking, packing, transporting and storing poultry, and handling, packing, transporting, and storing eggs, with the object of increasing the supply of these products and reducing the present wasteful methods.) Sirup demonstrations.	\$26,684.19	\$3,364.16	\$30,048.35	\$29,252.33	\$59,300.68
(Demonstration of processes for preparing sugar-cane and sorghum sirup of superior quality which will not crystallize or ferment, and of methods by which variability of flavor and color of the product may be overcome; the adoption of which methods, it is believed, will greatly stimulate sirup production and prevent serious losses from spoilage.) Handling, transportation, and storage of fish.	8,246.37	1,025.07	9,271.44	4,345.88	13,617.32
(Demonstrations of methods of handling, packing, storing, and shipping fish, with a view to the prevention of losses through spoilage and the increased utilization of this product for food purposes.) Prevention of plant-dust explosions and fires.	16,396.08	1,844.80	18,240.88	12,633.44	30,874.32
(Development and demonstration of methods for the prevention of plant-dust explosions and fires in grain mills and elevators, in cooperation with the Bureau of Markets, as a means of conserving the food supply of the country.) Fruit and vegetable utilization.	42,632.24	3,277.24	45,909.48	29,363.00	75,272.48
(Demonstrations, in cooperation with the Bureau of Plant Industry, of methods of drying fruits and vegetables on a commercial scale, with a view to the preservation and utilization of large quantities of perishable food products now wasted.) Preparation of sweet sirups.	24,851.13	2,452.27	27,303.40	7,914.96	35,218.36
(Study of the preparation of sweet sirups from a variety of agricultural products, with especial emphasis laid upon the production, on a commercial scale, of sirup from grapes.) Serviceability tests of leather and leather substitutes.					
(Conduct on an adequate scale of actual wearing experiments to determine the relative merits of various tannages of leather, both sole and upper, and also of sole leather substitutes, with a view to the conservation of raw materials, such as hides and vegetable tanning materials.) Waterproofing leather for Government and farm use.				3,000.00	3,000.00
(Tests of commercial waterproofing and preservative materials, as well as of formulas developed by the Bureau of Chemistry, in order to determine their value for waterproofing and their preservative qualities, as well as their freedom from harmful ingredients.)				6,000.00	6,000.00
				3,000.00	3,000.00

Utilization of wool-scouring wastes.....	5,000.00	5,000.00
(Development of practical methods for the recovery of wool grease and of potassium carbonate in connection with the operation of the chief wool-scouring plants of the country.)		
<b>BUREAU OF ENTOMOLOGY.</b>		
PROJECTS.		
Appropriation: Stimulating agriculture and facilitating distribution of products (same acts):		
General supervision of emergency insect-control work.....	9,493.20	745.65
(General supervision and systematization of the extension activities of the Bureau of Entomology in connection with emergency insect-control work, in cooperation with the States Relation Service and through that service with the extension divisions of the State agricultural colleges.)		10,238.85
Control of cereal and forage insects.....	42,034.50	13,614.28
(Extension work in the control of the principal insects affecting cereal and forage crops through instructions and demonstrations in applying proper cultural methods, such as the destruction of hibernation quarters, dates of planting, tillage, rotation, fertilization, time of harvesting, and the use of sprays, poison baits, or other insecticides.)		55,648.78
Control of stored-product insects.....	10,383.63	1,993.98
(Control of corn, pea, and bean weevils and other insects which infest stored food products, through demonstrations and instructions to warehousemen, seedmen, growers, and others in the construction of granaries and fumigation bins and in other methods of control.)		12,377.61
Control of vegetable and truck-crop insects.....	25,406.79	10,894.55
(Cooperation with county agricultural agents through instructions in the use of insecticides, such as sprays, powders, mashes, etc., in the application of correct cultural methods, such as destruction of hibernation quarters, rotation, and time of planting, and in the practice of proper methods of harvesting and storing, with a view to the control of insects injurious to vegetables and truck crops.)		36,301.34
Control of sweet-potato weevil.....	49,999.53	3,252.31
(Survey of the principal sweet potato growing districts of the South to determine the distribution of the weevil, and dissemination of information looking to the more general adoption by growers of effective measures for the control of this serious enemy of the sweet potato.)		53,251.84
Control of deciduous-fruit insects.....	47,401.61	15,435.21
(Extension and demonstration work having in view the wide and prompt dissemination of information concerning the most approved methods of controlling insects injurious to orchards and vineyards, including campaigns for the eradication of the Japanese beetle and the oriental fruit moth, two recently imported and dangerous insect pests of deciduous fruits.)		62,836.82
Control of citrus-fruit insects.....	9,110.74	4,709.97
(Instructions to growers in spraying, fumigation, and other remedial measures looking to the control of insects attacking the orange, lemon, and grapefruit, with the object of promoting increased production of these fruits.)		13,820.71
Control of insects injurious to live stock.....	7,425.38	8,414.55
(Practical field demonstrations by specialists of this bureau, working in cooperation with county agents and other extension forces, in methods of controlling insects injurious to live stock, particular attention being given to the ox warble, bot fly, screw worm, cattle lice, and poultry pests.)		15,839.93
Control of sugar-cane insects.....	1,579.57	905.67
(Instructions to growers in the control of the principal insects affecting sugar cane, including demonstrations in proper cultural methods, fertilization, harvesting, and the use of insecticides.)		2,485.24
		5,137.51
		7,622.75

*Information and figures relative to the cost of the war with Germany and Austria so far as concerns the Department of Agriculture—Continued.*

Appropriation and project, with explanatory remarks.

	Expenditures already made from Apr. 6, 1917, to Dec. 31, 1918.	Obligations incurred, not yet discharged, as of Dec. 31, 1918.	Total.	Estimated amount to be expended from emergency appropriations or allotments from Jan. 1 to June 30, 1919.	Grand total.
<b>BUREAU OF ENTOMOLOGY—Continued.</b>					
PROJECTS—continued.					
Appropriation: Stimulating agriculture and facilitating distribution of products (act May 20, 1918, vol. 40, pp. 845-846)—Continued.					
Extension work in bookkeeping, (Encouragement in bookkeeping, through instructions and demonstrations, in regions where apianaries are already established and where the conditions render quick enlargement of honey production most practicable.)					
Control of rice insects. (Practical field demonstrations to growers in the States of Texas and Louisiana of the beneficial results of rice-insect control measures.)					
<b>BUREAU OF BIOLOGICAL SURVEY.</b>					
Destruction of prairie dogs, gophers, and ground squirrels. (Demonstrations, in cooperation with State authorities, of methods of controlling rodents which cause immense losses through the destruction of vegetation, particularly cereal and forage crops.)					
Destruction of predatory animals. (Systematic control and eradication of wolves, coyotes, and other animals which cause serious losses to live stock on the western ranges and thereby materially reduce the available meat and wool supply of the country.)					
<b>BUREAU OF CROP ESTIMATES.</b>					
Special work in crop estimating. (Gathering special statistical information regarding crops and live stock for use in facilitating the activities of other branches of the department in increasing food production, improving marketing and distribution, and promoting conservation.)					
<b>STATES RELATIONS SERVICE.</b>					
General administration. (General direction and supervision of emergency activities looking to increased food production, the elimination of waste, and the conservation of food by educational and demonstrational methods.)					

Home economics.....	12,052.09	1,665.95	13,718.04	20,738.71	34,456.75
(Preparation and distribution of publications of a popular nature on diet and food conservation for use in the war-emergency demonstration work and correspondence relating thereto.)					
Extension work in the Northern and Western States.....	99,627.50	49,126.92	148,754.42	54,185.59	202,940.01
(Dissemination of information, through instruction and demonstrations on farms in urban households, and elsewhere; meetings, lectures, etc., having in view the adoption of the practices recommended by the Department of Agriculture and the State agricultural colleges for increasing food production, eliminating waste, and conserving food, and the extension of lines of work already in successful operation, in cooperation with agricultural colleges and other State agencies.)					
County-agent work.....	1,637,099.22	467,689.02	2,104,788.24	1,041,998.14	3,146,786.38
(Instruction and demonstrations in advanced agricultural practice, in cooperation with State agricultural colleges, by means of county agricultural agents, for the purpose of increasing the production of food and improving methods of marketing and utilization.)					
Boys' and girls' work.....	399,359.55	74,225.71	473,585.26	191,951.47	665,536.73
(Cooperation with agricultural colleges and other State agencies in the organization of young people of the farm into clubs, with a view to develop their strongest interest and, through them, the interest of farm men and women in the business of agriculture, to teach them better farm practices and organization, and to secure their active aid in the general campaign for increased food production.)					
Home-demonstration work.....	954,642.97	302,658.84	1,257,301.81	760,116.65	2,017,418.46
(Organization, correlation, and conduct, in cooperation with State agricultural colleges and county and local organizations, by means of women demonstration agents, of extension work in home economies with farm and city women, for the purpose of securing efficiency in household management, promoting food conservation, and eliminating waste.)					
Extension work in Southern States.....	61,407.07	13,709.41	75,116.48	45,668.12	120,784.60
(Dissemination of information, through instruction and demonstrations on farms, in urban households, and elsewhere; meetings, lectures, etc., having in view the adoption of the practices recommended by the Department of Agriculture and the State agricultural colleges for increasing food production, eliminating waste, and conserving food, and the extension of lines of work already in successful operation, in cooperation with agricultural colleges and other State agencies.)					
County-agent work.....	841,574.89	177,701.61	1,019,276.50	929,245.00	1,948,521.50
(Instruction and demonstrations in advanced agricultural practice, in cooperation with State agricultural colleges, by means of county agricultural agents, for the purpose of increasing the production of food and improving methods of marketing and utilization.)					
Boys' club work.....	448,131.87	31,077.02	473,208.89	48,013.27	527,222.16
(Cooperation with agricultural colleges and other State agencies in the organization of boys of the farm into clubs, with a view to develop their strongest interest and, through them, the interest of farm men and women in the business of agriculture, to teach them better farm practices and organization, and to secure their active aid in the general campaign for increased food production.)					
Home-demonstration work.....	265,928.77	167,574.57	433,503.34	415,983.60	849,486.94
(Organization, correlation, and conduct, in cooperation with State agricultural colleges and county and local organizations, by means of women for the purpose of securing efficiency in household management promoting food conservation, and eliminating waste.)					
<b>BUREAU OF MARKETS.</b>					
Market news service on fruits and vegetables.....	582,233.03	96,405.48	678,638.51	214,384.75	893,023.26
(Collection and dissemination, by telegraph, mail, and otherwise, of daily information concerning the supply, commercial movement, disposition, and market prices of fruits and vegetables, in order to assist in securing a better distribution of these perishable products.)					

*Information and figures relative to the cost of the war with Germany and Austria so far as concerns the Department of Agriculture—Continued.*

Appropriation and project, with explanatory remarks.

#### BUREAU OF MARKETS—Continued.

	Expenditures already made from Apr. 6, 1917, to Dec. 31, 1918.	Obligations incurred, not yet discharged, as of Dec. 31, 1918.	Total.	Estimated amount to be expended from emergency appropriations or allotments from Jan. 1 to June 30, 1919.	Grand total.
Market news service on live stock and meats (Collection and dissemination, by telegraph mail, and otherwise, of daily reports on the demand for and supply and prices of live stock and meats, including information regarding the source and distribution and other conditions affecting the live-stock and meat trade.)	\$293,302.15	\$91,609.17	\$384,911.32	\$133,100.43	\$518,011.75
Market news service on butter, cheese, eggs, and poultry (Securing and issuing reports on the production, market receipts, available market supplies, trade and market conditions, and prices of dairy and poultry products at country points and in wholesale and retail distributing markets.)	97,690.80	22,972.89	120,663.69	66,979.41	187,643.10
Grain, hay, and seed market reporting service (Assembling and distributing accurate information relative to the stocks, surplus supplies available, requirements, and prices of grain, hay, and feed in all parts of the United States; giving assistance in the marketing of these commodities and rendering special emergency service when required in particular sections; also, collecting and distributing information regarding the movement, supply, demand, prices, and quality of seed.)	176,779.44	38,764.81	215,544.25	67,671.93	283,216.18
Food and fertilizer surveys of the United States (Acquiring, compiling, and distributing information concerning the food supply of the Nation, especially the quantities of raw food products on farms, stocks in the hands of manufacturers, storage concerns, wholesale and retail dealers, and in households, the relative supply as compared with that of a year ago, and the rate of consumption.)	589,700.57	48,511.14	638,211.71	72,486.42	710,698.13
Conservation of food in transportation and storage (Demonstration of the practical and effective application of the fundamental principles regarding the proper handling of perishable food products during transportation and storage; construction and management of storage houses for fruits and vegetables, in order to effect the maximum efficiency in the preservation of their contents; and prevention of waste and deterioration of perishable food products due to careless handling, unnecessary delays, and inefficient storage and refrigeration facilities.)	180,722.68	82,428.85	263,151.53	77,391.73	340,533.26
Market inspection of perishable foods (Investigating and certifying to shippers and other interested parties the quality and condition of fruits and vegetables and other food products received at important central markets selected by the Secretary of Agriculture as inspection points.)	121,789.07	13,525.98	135,315.05	12,585.08	147,900.13
City market service (Acquiring and disseminating information in nontechnical form relative to the local supply and prices of produce; improvement of methods of retail distribution, and, in cooperation with the Food Administration, publication of information regarding local supplies and prices.)	40,977.50	16,458.42	57,435.92	29,903.38	87,339.30
Direct marketing activities (Demonstration of the practical utility of the parcel post and express for marketing food products direct from producer to consumer, in order to conserve small lots of food products	22,929.11	13,730.08	36,659.19	29,956.77	66,615.96

which otherwise could not be marketed; assisting producers and consumers by practical demonstrations with actual shipments, in cooperation with the Post Office Department and express companies; demonstration of the proper methods of packing and crating such shipments; and inauguration of motor-truck routes in localities where existing transportation facilities are inadequate.)

(Special marketing activities.....  
Special marketing activities useful in connection with the war emergency, such as demonstrating the cooperative purchasing and marketing of farm products, foreign marketings, investigations, demonstrations of the proper methods of grading and standardizing farm products, and investigations and demonstrations regarding the best methods of marketing cotton seed and soy beans.)

Farm storage of sweet potatoes.....  
(Assistance to sweet-potato growers in obtaining accurate information regarding the construction and management of storage houses and the proper methods to be used in harvesting and curing sweet potatoes, thereby greatly reducing losses in storage and extending the utilization of the crop over a longer period of time.)

Prevention of plant-dust explosions and fires.....  
(Cooperation with the Bureaus of Chemistry and Plant Industry in the demonstration of method of cleaning grain in thrashers by special fans, resulting in an improvement in the grade of the grain; assistance in demonstrating methods and devices adapted to grain elevators and storage warehouses for preventing grain-dust explosions and fires; and assistance in the development of effective methods of control and prevention of cotton-gin explosions and fires.)

#### PROJECTS.

Appropriation: National security and defense, Department of Agriculture (act May 20, 1918, vol. 40, pp. 845-890).

~ Licensing of stock yards and related enterprises.....

(The enforcement of regulations governing licensees operating stock yards or handling or dealing in live stock in or in connection with stock yards.)

Establishment and application of uniform market grades and meat animals.....  
(Establishment and application of uniform market grades of meat animals and report of prices of different classes and grades of live stock received at or shipped from centralized market.)

~ Reports on distribution and prices of live stock and meats.....

(Reports on the distribution and prices of meat shipped from packing centers.)

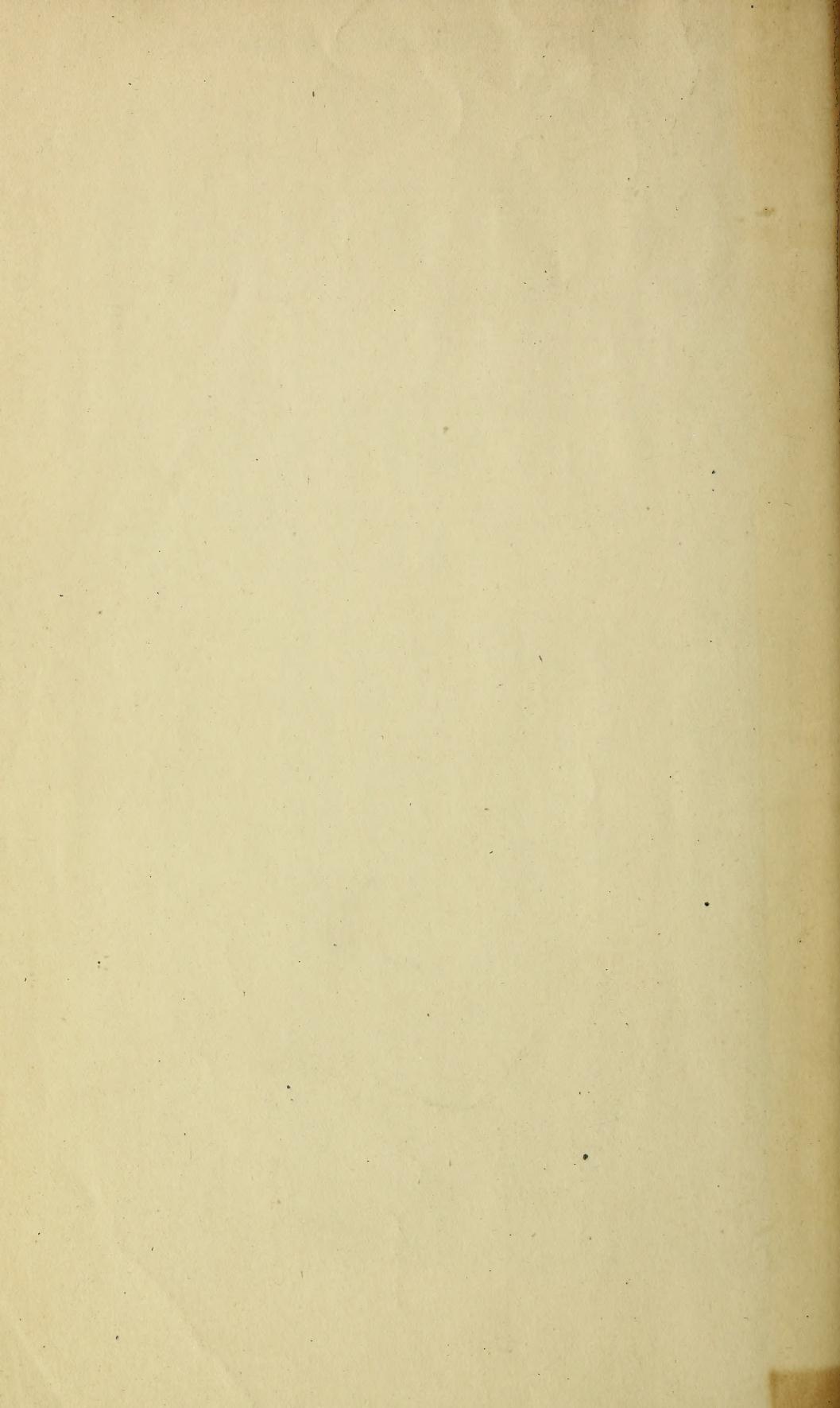
Appropriation: Food control act (act Aug. 10, 1917, vol. 40, p. 280).

Procuring and disposing of nitrate of soda (see under "Credits," below).  
(Purchase and sale of nitrate of soda to farmers for cash at cost, for the purpose of increasing agricultural products.)

Total.....

#### CREDITS.

Receipts from sale of seeds to farmers, which have been deposited to credit of appropriation for further expenditures .....	\$2,295,577.29
Receipts from sale of nitrate of soda, which have been deposited to credit of appropriation for further expenditures .....	5,736,973.21
Net total.....	20,959,091.10



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